

AMENDMENTS TO THE CLAIMS:

Please cancel without prejudice claims 2, 4 and 14 and amend claim 1 as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A passive millimeter wave (MMW) radiation detection apparatus comprising:

a radiation detector; and

a lens arrangement, the lens arrangement comprising:

a polarising element; and

an optical corrector, the polarising element being arranged to selectively transmit radiation of a first polarisation and to focus and selectively reflect radiation of a second polarisation, and the optical corrector having ~~a~~ first and ~~a~~ second curved surfaces, wherein ~~at least one of the first and~~ said second surfaces is shaped to correct aberrations present in the lens arrangement, said first surface comprising a convex surface, wherein said optical corrector is arranged to support the polarising element upon said first convex surface thereof, wherein said first convex surface is conformal with said polarizing element.

2. (cancelled).

3. (previously presented) A radiation detection apparatus as claimed in claim 1 wherein the optical corrector is physically located between the polarising element and the radiation detector,

4. (cancelled).

5. (previously presented) A radiation detection apparatus as claimed in claim 1 wherein the optical corrector is fabricated from a material having a density of around 30 g l^{-1} .

6. (previously presented) A radiation detection apparatus as claimed in claim 1 wherein the optical corrector is fabricated from a material having a refractive index of between 1.001 and 2.

7. (previously presented) A radiation detection apparatus as claimed in claim 1 wherein there is provided a further optical corrector interposed between the optical corrector and the radiation detector.

8. (original) A radiation detection apparatus as claimed in claim 7 wherein the further optical corrector has a front surface with an elliptical cross-section and an aspherical, plane or spherical profile.

9. (previously presented) A radiation detection apparatus as claimed in claim 7 wherein the further optical corrector has a rear surface with a different profile to the profile of the front surface.

10. (previously presented) A radiation detection apparatus as claimed in claim 7 wherein the further optical corrector is fabricated from a plastic material.

11. (previously presented) A radiation detection apparatus as claimed in claim 7 wherein the further optical corrector is fabricated from a plastics foam material.

12.(previously presented) A radiation detection apparatus as claimed in claim 1 wherein the radiation detector is an imaging radiation detector.

13. (previously presented) A radiation detection apparatus as claimed in claim 1 wherein the polarising element is arranged to focus radiation having the second polarisation.

14. (cancelled).